

## INTERNATIONAL SEARCH REPORT

Int lonal Application No

PCT/IB 03/05681

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 A61C17/22 B26B19/28 B25F3/00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61C B26B A47J B25F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 777 393 A (PEOT DAVID G) 11 October 1988 (1988-10-11) column 7, line 41-47 column 11, line 65 -column 12, line 11 figures 15,16	1-3,7
X	US 5 848 841 A (WU CHING-MIIN) 15 December 1998 (1998-12-15) column 2, line 16-44 figures 1-3	1-3
X	FR 2 169 457 A (SUPEMEC) 7 September 1973 (1973-09-07) page 2, line 5-8 figures	1,2
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☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

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\*O\* document referring to an oral disclosure, use, exhibition or other means

\*P\* document published prior to the international filing date but later than the priority date claimed

\*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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\*&amp;\* document member of the same patent family

Date of the actual completion of the international search

8 April 2004

Date of mailing of the international search report

16/04/2004

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 103 511 A (KRESS WILLY ET AL) 1 August 1978 (1978-08-01) column 4, line 49-52 column 5, line 48-56 figures 1,3,11	1,2
A	US 3 629 944 A (HARRIS OLIVER G ET AL) 28 December 1971 (1971-12-28) column 5, line 11-28 figure 8	10,15,16
A	US 4 827 552 A (BOJAR JAMES A ET AL) 9 May 1989 (1989-05-09) figures 5,6	10,15

**INTERNATIONAL SEARCH REPORT**

Information on patent family members

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Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 4777393	A	11-10-1988	CA	1274571 A1	25-09-1990
US 5848841	A	15-12-1998	NONE		
FR 2169457	A	07-09-1973	FR	2169457 A5	07-09-1973
US 4103511	A	01-08-1978	US	RE30680 E	21-07-1981
US 3629944	A	28-12-1971	DE	2005266 A1	03-09-1970
US 4827552	A	09-05-1989	NONE		